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United States Department of Agriculture,

WASHINGTON, D. C., *August 31, 1920.*

MONTHLY LIST OF PUBLICATIONS.

[AUGUST, 1920.]

READ CAREFULLY BEFORE ORDERING.

☞ **Send no remittances to the U. S. Department of Agriculture.**

A copy of any of the publications listed herein, except those otherwise noted, may be obtained free upon application to the Chief of the Division of Publications, United States Department of Agriculture, Washington, D. C., as long as the department's supply lasts.

After this department's supply is exhausted, publications can still be obtained from the Superintendent of Documents, Government Printing Office, Washington, D. C., but by purchase only, and at the prices noted herein.

☞ **Send all remittances to the Superintendent of Documents direct. His office is not a part of the Department of Agriculture.**

FARMERS' BULLETINS—FOR FREE DISTRIBUTION.

☞NOTE.—The department's supply of the current numbers of Farmers' Bulletins is ordinarily sufficient to make it possible to send them free to all applicants. They are also for sale at 5 cents per copy unless otherwise noted.

A system of Farm Cost Accounting. By C. E. Ladd, agent, Revised by James S. Ball, Assistant in Farm Accounting. Pp. 23, figs. 3. Contribution from the Office of Farm Management. Revised, March, 1920. **(Farmers' Bulletin 572.)**

Suitable for general distribution.

Home Laundering. By Lydia Ray Balderston, Instructor in Laundering, Teachers College, Columbia University. Pp. 32, figs. 12. Contribution from the States Relations Service. 1920. **(Farmers' Bulletin 1099.)**

A plan for a home laundry with a description of the equipment needed.

Growing Irrigated Grain in Southern Idaho. By L. C. Aicher, Agronomist and Superintendent, Aberdeen Station, Aberdeen, Idaho, Office of Cereal Investigations. Pp. 28, figs. 13. Contribution from the Bureau of Plant Industry. 1920. **(Farmers' Bulletin 1103.)**

Of interest to prospective settlers and to farmers in this section.

Peanut Growing for Profit. By W. R. Beattie, Horticulturist, Office of Horticultural and Pomological Investigations. Pp. 33, figs. 20. Contribution from the Bureau of Plant Industry, 1920. **(Farmers' Bulletin 1127.)**

Suitable for general distribution.

DEPARTMENTAL BULLETINS—TECHNICAL.

☞The publications listed below are technical or scientific treatises or bulletins applying to a special industry or locality. The edition is limited, but they will be furnished free to persons who can use such specialized information as long as the supply lasts. However, to insure prompt receipt, remit price to the Superintendent of Documents.

Experiments with Kherson and Sixty-Day Oats. By C. W Warburton, Agronomist in Charge, and T. R. Stanton, Assistant Agronomist in Oats Investigations, Office of Cereal Investigations. Pp. 72, figs. 14. Contribution from the Bureau of Plant Industry. (Professional Paper.) May 24, 1920. **(Department Bulletin 823.)** Price, 15 cents.

Reports results of experiments in growing, and the present status of the Kherson and Sixty-Day Oats in the United States.

Generic Classification of the Hemipterous Family Aphididæ. By A. C. Baker, Entomologist, Deciduous Fruit Insect Investigations. Pp. 109, pls. 16. Contribution from the Bureau of Entomology. (Professional Paper.) August 10, 1920. **(Department Bulletin 826.)** Price, 30 cents.

This paper is the first of a series treating the Aphididæ. It will be followed by others dealing with the economic importance, biologies, and relationships of species in the different genera.

Spillways for Reservoirs and Canals. By A. T. Mitchelson, Senior Irrigation Engineer. Pp. 40, pls. 15, figs. 14. Contribution from the Bureau of Public Roads. (Professional Paper.) August 26, 1920. **(Department Bulletin 832.)** Price, 30 cents.

Points out the superior advantages of the siphon spillway and describes various other types.

Capillary Movement of Soil Moisture. By Walter W. McLaughlin, Senior Irrigation Engineer. Pp. 70, figs. 10. Contribution from the Bureau of Public Roads. (Professional Paper.) Aug. 6, 1920. **(Department Bulletin 835.)** Price, 15 cents.

Of interest to irrigation engineers, drainage engineers, and irrigation farmers.

Sweet-Clover Seed. Part I. Pollination Studies of Seed Production. Part II. Structure and Chemical Nature of the Seed Coat and its Relation to Impermeable Seeds of Sweet Clover. By H. S. Coe, formerly Assistant Agronomist, Office of Forage-Crop Investigations, and J. N. Martin, Professor of Morphology and Cytology, Iowa State College. Pp. 39, pls. 5, figs. 6. Contribution from the Bureau of Plant Industry. (Professional Paper.) Aug. 11, 1920. **(Department Bulletin 844.)** Price, 15 cents.

A study of the causes of the trouble experienced in obtaining satisfactory yields of sweet-clover seed.

Roundheaded Apple-Tree Borer: Its Life History and Control. By Fred E. Brooks, Entomologist, Deciduous Fruit Insect Investigations. Pp. 42, pls. 9, figs. 5. Contribution from the Bureau of Entomology. (Professional Paper.) Aug. 9, 1920. **(Department Bulletin 847.)** Price, 15 cents.

Of interest to apple growers in the eastern half of the United States.

The Flow of Water in Drain Tile. By D. L. Yarnell, Senior Drainage Engineer, and Sherman M. Woodward, Professor of Mechanics and Hydraulics, State University of Iowa. Pp. 50, pls. 13. Contribution from the Bureau of Public Roads. (Professional Paper.) August 26, 1920. **(Department Bulletin 854.)** Price. 30 cents.

A technical discussion of the subject of interest to drainage engineers.

The Organization of Cooperative Grain Elevator Companies. By J. M. Mehl, Investigator in Cooperative Organization, and O. B. Jesness, Specialist in Cooperative Organization. Pp. 40. Contribution from the Bureau of Markets. August 30, 1920. **(Department Bulletin 860.)** Price, 10 cents.

Contains forms of organizations, joint stock companies, ordinary private corporations, and the cooperative form, as well as general suggestions on the subject.

A Classification of Ledger Accounts for Creameries. By George O. Knapp and Burton B. Mason, Assistants in Market Business Practice, and A. V. Swarthout, Investigator in Market Business Practice. Pp. 40. Contribution from the Bureau of Markets. Aug. 16, 1920. **(Department Bulletin 865.)** Price, 10 cents.

Describes in detail a classification which can be used advantageously by creameries and which is a great aid to the bookkeeper.

Pickering Sprays. By F. C. Cook, Physiological Chemist, Insecticide and Fungicide Laboratory. Pp. 47, pls. 2, fig. 1. Contribution from the Bureau of Chemistry. August 24, 1920. **(Department Bulletin 866.)** Price, 10 cents.

Describes results of experiments conducted to determine the comparative efficacy of Pickering sprays and standard Bordeaux mixtures.

Farm Land Values in Iowa By L. C. Gray, Agricultural Economist in Charge of Land Economics, Office of Farm Management and Farm Economics, and O. G. Lloyd, Assistant Chief in Farm Management, Iowa Agricultural Experiment Station. Pp. 45. Contribution from the Office of Farm Management. (Professional Paper.) August 23, 1920. **(Department Bulletin 874.)** Price, 10 cents.

A discussion of the trend of land values in general and of the causes leading to the increase in prices of Iowa farm lands, with special reference to the year 1919.

Effect of Alfalfa on the Subsequent Yields of Irrigated Field Crops. By C. S. Scofield, Agriculturist in Charge, Office of Western Irrigation Agriculture. Pp. 13. Contribution from the Bureau of Plant Industry. Aug. 10, 1920. **(Department Bulletin 881.)** Price, 5 cents.

Describes experiments that justify the claim that larger crops of Irish potatoes, oats, and sugar beets can be secured from land following alfalfa than from land following nonleguminous crops.

MISCELLANEOUS.

Rules and Regulations of the Secretary of Agriculture under the Food Products Inspection Law of May 31, 1920. Pp. 8. August, 1920. **(Circular 151, Office of the Secretary.)** Price, 5 cents.

Supersedes Circular 144, Office of the Secretary.

Vacation on the White Mountain National Forest. Pp. 23. il. Contribution from the Forest Service. 1920. **(Department Circular 109.)** Price, 5 cents.

Mountain Outings on the Rainier National Forest. Pp. 26. il. Contribution from the Forest Service. 1920. **(Department Circular 103.)** Price, 10 cents.

United States Grades for Milled Rice Recommended by the United States Department of Agriculture. Pp. 16. Contribution from the Bureau of Markets. August, 1920. **(Department Circular 133.)** Price, 5 cents.

SERIALS.

Journal of Agricultural Research. (For sale only.) Vol. 19, No. 8. July 15, 1920. Contents: Relative Susceptibility to Citrus-Canker of Different Species and Hybrids of the Genus Citrus, Including the Wild Relatives. (Ala–6) By George L. Peltier and William J. Frederich.—Presoak Method of Seed Treatment: A Means of Preventing Seed Injury Due to Chemical Disinfectants and of Increasing Germicidal Efficiency. (G–198) By Harry Braun. Pp. 339–392, pls. 26, figs. 9. Price, 25 cents.

Same, Vol. 19, No. 9. August 2, 1920. Contents: Daily Development of Kernels of Hannchen Barley from Flowering to Maturity at Aberdeen, Idaho. (G–199) By Harry V. Harlan.—Development of Barley Kernels in Normal and Clipped Spikes and the Limitations of Awnless and Hooded Varieties. (G–200) By Harry V. Harlan and Stephen Anthony. Pp. 393–472, pls. 9, figs. 30. Price, 20 cents.

Experiment Station Record. Vol. 43, No. 1. July, 1920. E. W. Allen, Ph. D., Editor. Pp. 1–100. Price, 15 cents.

Same, Index to Vol. 41. July–December, 1919. Pp. xxlv, 901–1007. July 30, 1920. Price, 15 cents.

☞NOTE.—The Record is a technical review of the world's scientific literature pertaining to agriculture. It is not intended for general distribution and its free distribution is restricted to persons connected with the agricultural colleges, experiment stations, and similar institutions, and to libraries and exchanges. It can not be sent free to individuals having no official connection with public institutions. The Superintendent of Documents will receive subscriptions for this publication, which is issued in two volumes a year, 10 numbers each, at $1 a volume.

The Monthly Crop Reporter. Vol. 6, No. 8, August, 1920. Pp. 77–92. (Bureau of Crop Estimates.) Price, 25 cents a year.

Contains data relating to agriculture, including estimates of acreage, conditions, yield, prices, and value of crops and live stock.

ANNOUNCEMENT.—Because of the small fund available for printing, it has been found necessary to drop from the mailing list of the Monthly Crop Reporter all names of persons who are not actively cooperating with the United States Department of Agriculture. Persons whose names are dropped may subscribe for this publication through the Superintendent of Documents, Washington, D. C., at the domestic rate of 25 cents per year, and 40 cents per year to foreign addresses, payable only by postal money order or cash. No checks accepted.

The Market Reporter. Vol. 2, Nos. 6, 7, 8, 9. August, 1920. (Bureau of Markets.) For free distribution to applicants who show the need for it.

Same, Index to Volume 1, January–June, 1920.

The Market Reporter is the official marketing publication of the United States Department of Agriculture. It contains general, current, and statistical marketing information for important classes of agricultural products, both staple and perishable, which is of general interest and of permanent value alike to producers, dealers, and consumers.

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Weekly News Letter.

Contains a weekly summary in popular form of the more important practical discoveries and recommendations of all bureaus of the department. Free list confined to departmental employees, official cooperators, and the press. May be purchased from the Superintendent of Documents, Government Printing Office, for 50 cents a year.

SOIL SURVEYS.

☞All requests for soil surveys are referred to the Bureau of Soils for attention, the distribution of same being controlled by that bureau.

Soil Survey of Kent County, Delaware. By J. E. Dunn and J. M. Snyder, of the U. S. Department of Agriculture, and Elwood Hoffecker, of the Delaware Agricultural Experiment Station. Pp. 32, fig. 1, map. **(From F. O. Soils, 1918.)** Price, 15 cents.

Soil Survey of St. Johns County, Florida. By Arthur E. Taylor, Grove B. Jones, E. C. Hall, and Charles N. Mooney. Pp. 37, pls. 3, fig. 1, map. **(From F. O. Soils, 1917.)** Price, 15 cents.

Soil Survey of La Salle Parish, Louisiana By Clarence Lounsbury and R. F. Rogers. Pp. 42, pls. 2, fig. 1, map. **(From F. O. Soils, 1918.)** Price, 15 cents.

SERVICE AND REGULATORY ANNOUNCEMENTS—FOR SALE ONLY.

☞These contain *only* information, instructions, and notices governing the enforcement of the food and drugs act, meat inspection, 28-hour, and quarantine laws, and the various regulations of the department. Issued monthly by certain bureaus. *Free distribution* is limited to persons in the employ of the department, to public officials whose duties render it necessary for them to have such information, to journals especially concerned, and to manufacturers and firms whose business is affected by same. Others desiring copies are respectfully referred to the Superintendent of Documents, Government Printing Office, who has them for sale *only*, at prices noted.

Bureau of Animal Industry. No. 158. June, 1920. Pp. 65–74. Aug. 16, 1920. Price, 5 cents.

Bureau of Chemistry. Supplement No. 74. [N. J. 7151–7200.] Pp. 113–147. Aug. 13.

Same, Supplement No. 75. [N. J. 7201–7250.] Pp. 149–178. Aug. 16, 1920. Price, 5 cents.

Same, Supplement No. 76. [N. J. 7251–7300.] Pp. 181–213. August 16, 1920. Price, 5 cents.

Same, Supplement No. 77. [N. J. 7301–7350.] Pp. 215–246. Sept. 3, 1920. Price, 5 cents.

Same, Supplement No. 78. [N. J. 7351–7400.] Pp. 247–287. August 31, 1920. Price, 5 cents.

PUBLICATIONS OF THE WEATHER BUREAU.

☞Publications of the Weather Bureau are obtainable only from the Chief of the Weather Bureau or the Superintendent of Documents, Government Printing Office, at the prices noted herein.

Monthly Weather Review. Vol. 48, No. 5, May, 1920. [Aug. 2, 1920.] Pp. 251–310, figs. 23, charts 14. Price, 25 cents a copy, $2.50 a year. Payable to the Superintendent of Documents.

Special Articles: Preliminary steps in the making of free-air pressure and wind charts. By C. L. Meisinger.—Temperatures versus pressures as determinants of winds aloft. By W. R. Gregg.—Detection of storms and their travel by radio equipment. By C. N. Keyser.—Aerological observations in the West Indies. By W. R. Gregg.—The Measurement of temperature, with some remarks on other physical measurements, and applications to meteorology. By E. W. Woolard.—Shading instrument shelters. By S. D. Flora.—The standard atmosphere. By W. R. Gregg.—The most intense rainfall on record. By B. C. Kadel.—Sunshine and cloudiness in the Canal Zone. By H. G. Cornthwaite.—Humidity and hot weather. By H. G. Cornthwaite.—Optimum temperature for human energy.—Agricultural meteorology. By J. Warren Smith.

National Weather and Crop and Snow and Ice Bulletin. Nos. 31, 32, 33, 34, 35, August, 1920, reporting weather and crop conditions throughout the United States. Issued weekly. Price, 25 cents a year.

NOTE.—This bulletin is furnished free of charge to public and educational institutions, libraries, newspapers, cooperative observers, weather correspondents, and to those who will post or display it for the general benefit of the public. To all others the price is 25 cents per year, payable to the Superintendent of Documents, Government Printing Office, Washington, D. C.

EDWY B. REID,
Chief, Division of Publications.

WASHINGTON : GOVERNMENT PRINTING OFFICE : 1920